



# Drought Information Statement for Middle Tennessee

**Valid October 26, 2023**

Issued By: NWS Nashville, TN

Contact information: [sr-ohx.dss@noaa.gov](mailto:sr-ohx.dss@noaa.gov)

- This product will be updated every Thursday as long as drought conditions are present.
- Please see all currently available products at <https://drought.gov/drought-information-statements>.
- Please visit <https://www.weather.gov/ohx/DroughtInformationStatement> for previous statements.





# U.S Drought Monitor

Link to the [latest U.S. Drought Monitor](#) for Middle Tennessee

- **Drought intensity and Extent**
  - **D4 Exceptional Drought:** None
  - **D3 Extreme Drought:** Wayne County, and portions of Lawrence, Grundy, and Van Buren counties
  - **D2 Severe Drought:** Most areas south of Interstate 40
  - **D1 Moderate Drought:** Most areas along and north of Interstate 40
  - **D0 Abnormally Dry:** Limited to counties along the Kentucky state line

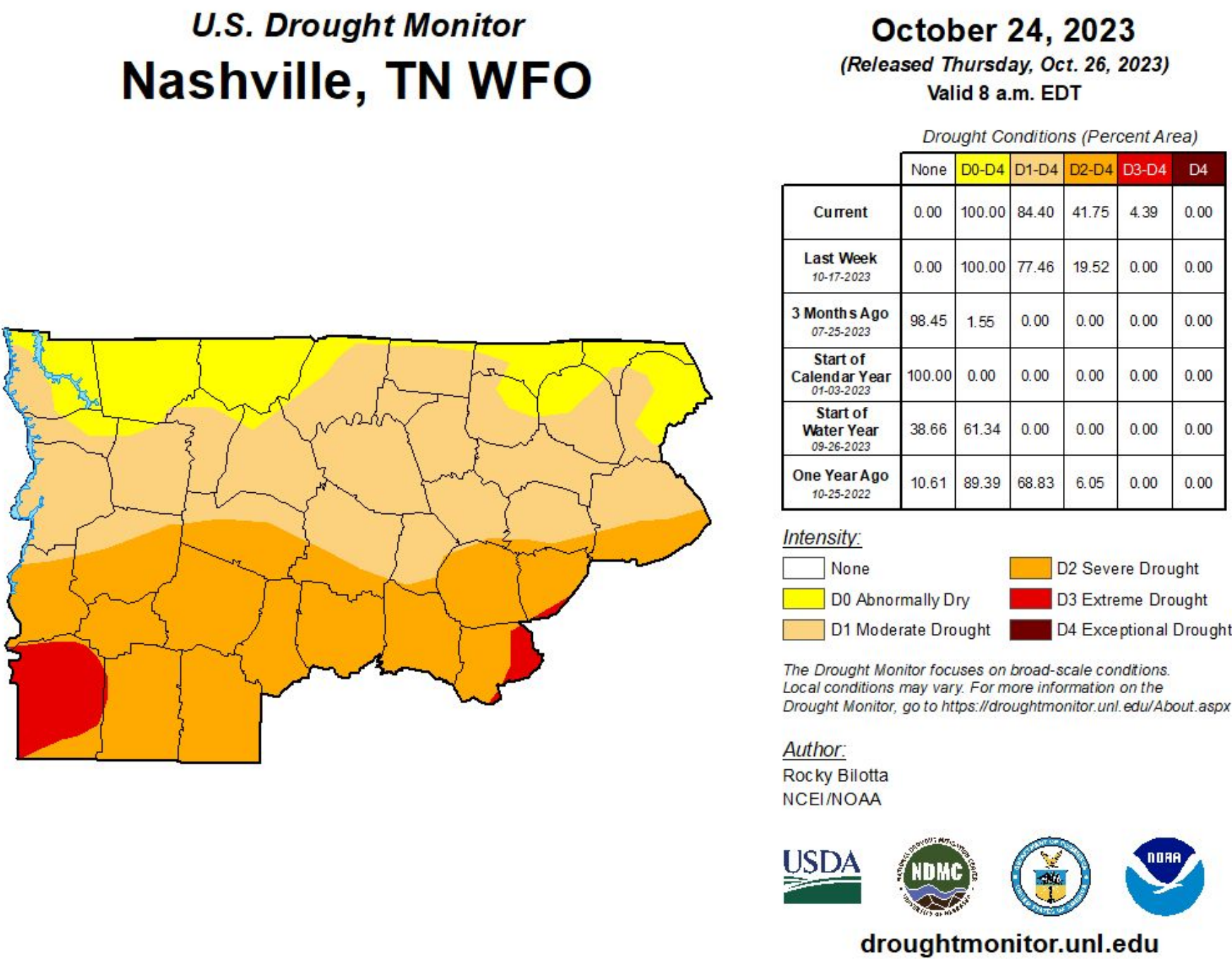


Image Caption: U.S. Drought Monitor valid 7am CT, October 26, 2023





# Recent Change in Drought Intensity

Link to the [latest 4-week change map](#) for Middle Tennessee

- **Four Week Drought Monitor Class Change**
  - **Drought Worsened:** All counties saw at least 1 class of degradation, with some southern Middle Tennessee counties seeing 3 classes of degradation over the last 4 weeks
  - **No Change:** None
  - **Drought Improved:** None

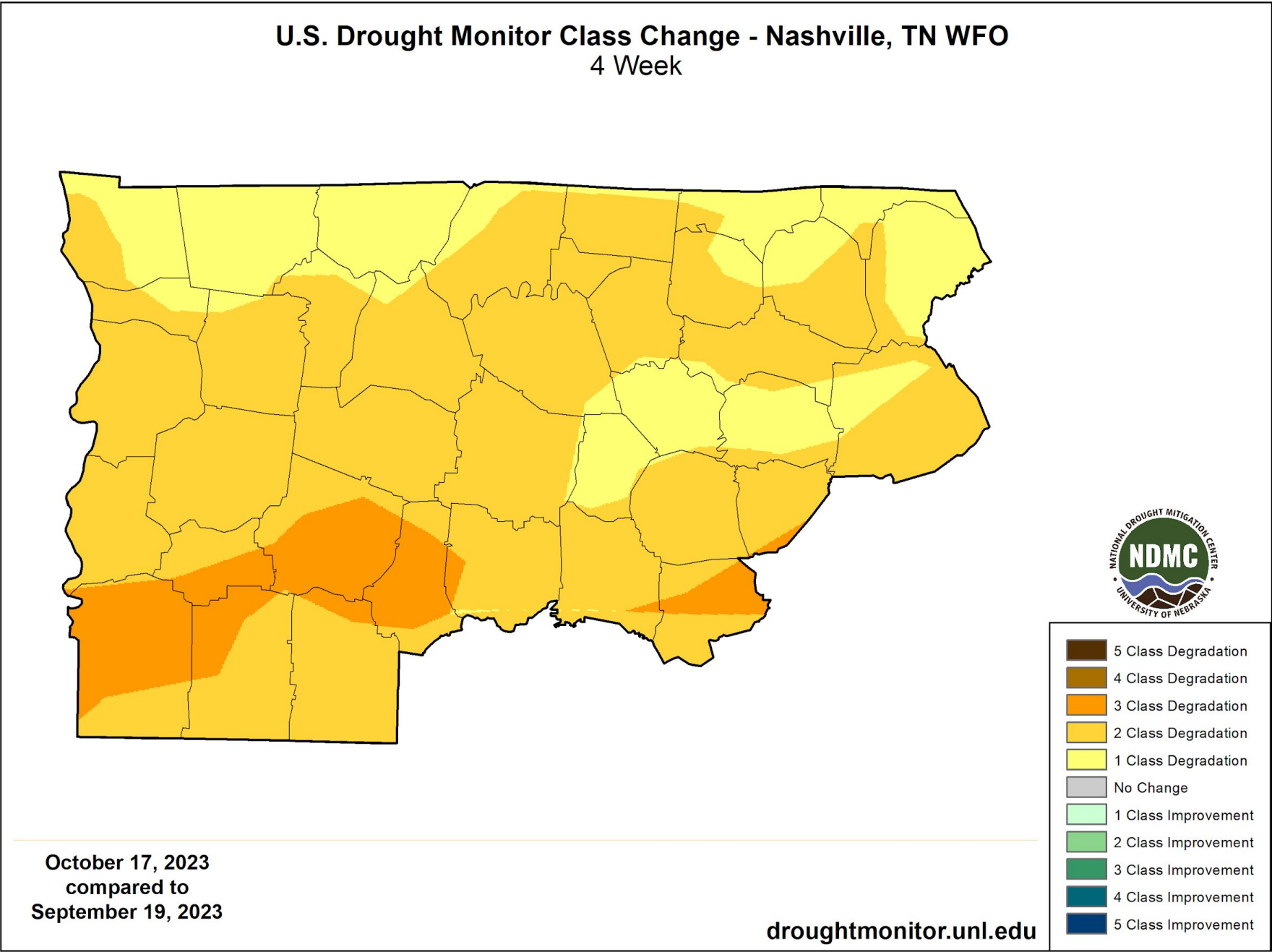


Image Caption: U.S. Drought Monitor valid 7am CT, October 26, 2023

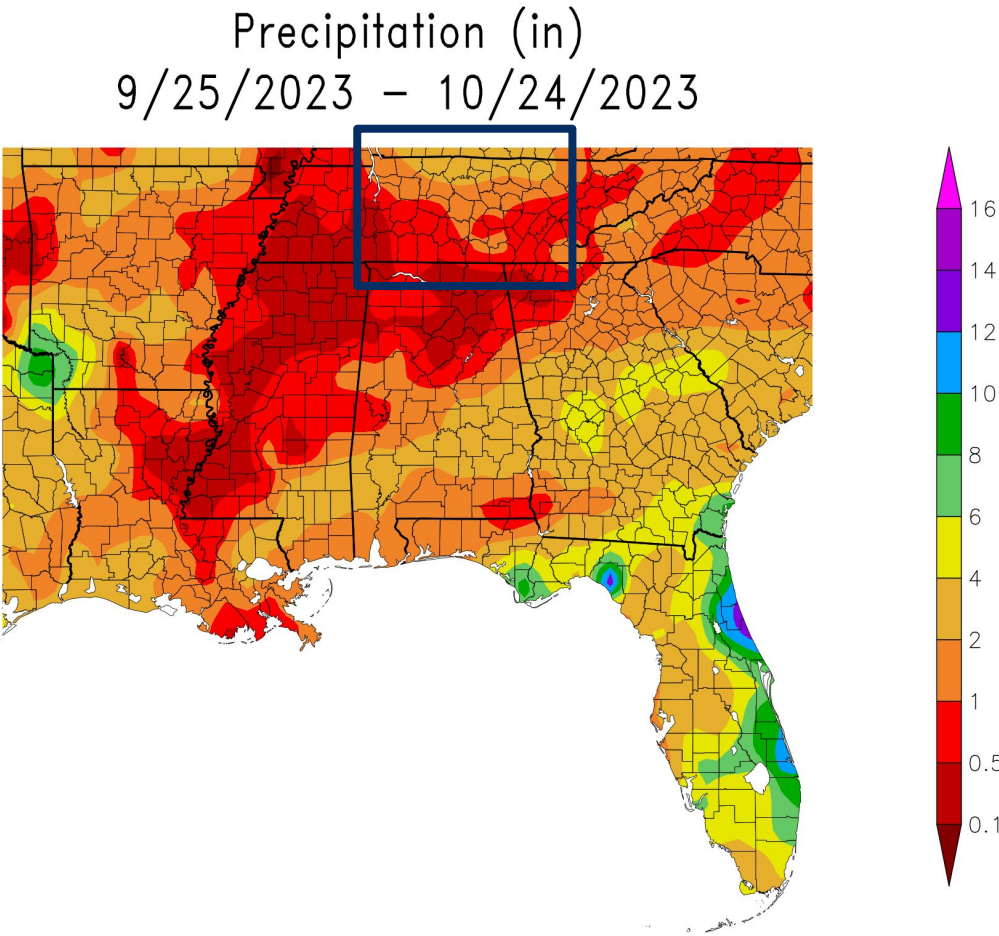




# Precipitation

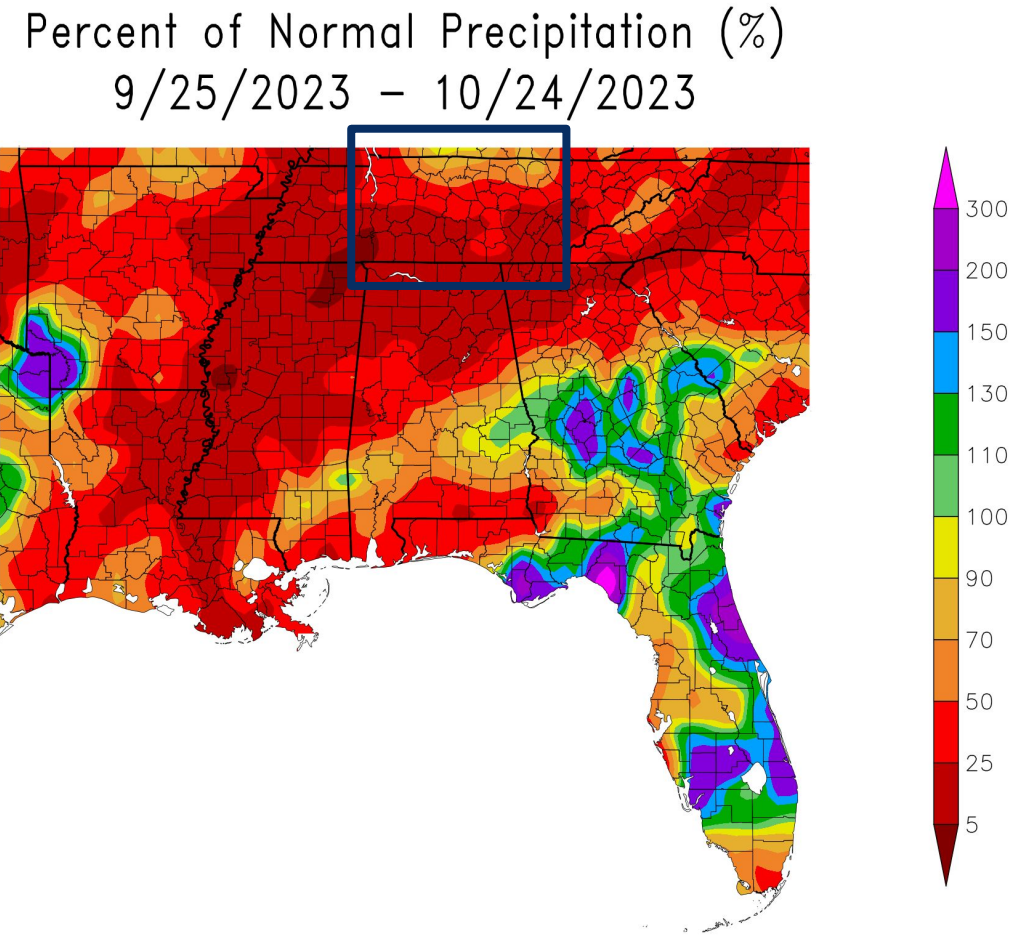
Over the past 30 days from the [High Plains Regional Climate Center](#)

- Precipitation has been slightly below normal across the northern portions of Middle Tennessee (70-90% of normal), to well below normal across the southern portions of the mid-state (5% of normal or less).



Generated 10/25/2023 at HPRCC using provisional data.

NOAA Regional Climate Centers



Generated 10/25/2023 at HPRCC using provisional data.

NOAA Regional Climate Centers

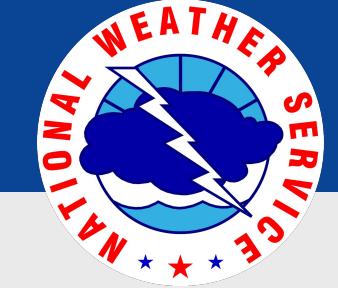
Image Captions:

Left - [Precipitation Amount](#)

Right - [Percent of Normal Precipitation](#)

Data Courtesy High Plains Regional Climate Center  
Data over the past 30 days ending October 24, 2023





# Summary of Impacts

Links: See/submit [Condition Monitoring Observer Reports \(CMOR\)](#) and view the [Drought Impacts Reporter](#)

## Hydrologic Impacts

- Stream flows are below normal to much below for some areas of Middle Tennessee, especially for portions of the Duck River.

## Agricultural Impacts

- There are no known impacts at this time as the growing season has ended.

## Fire Hazard Impacts

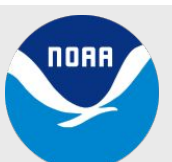
- Burn bans are in effect for some areas due to the heightened fire danger risk.

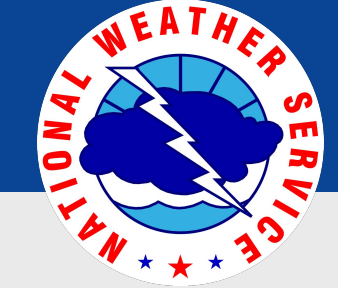
## Other Impacts

- There are no known impacts at this time.

## Mitigation actions

- Please refer to your municipality and/or water provider for mitigation information.





# Hydrologic Conditions and Impacts

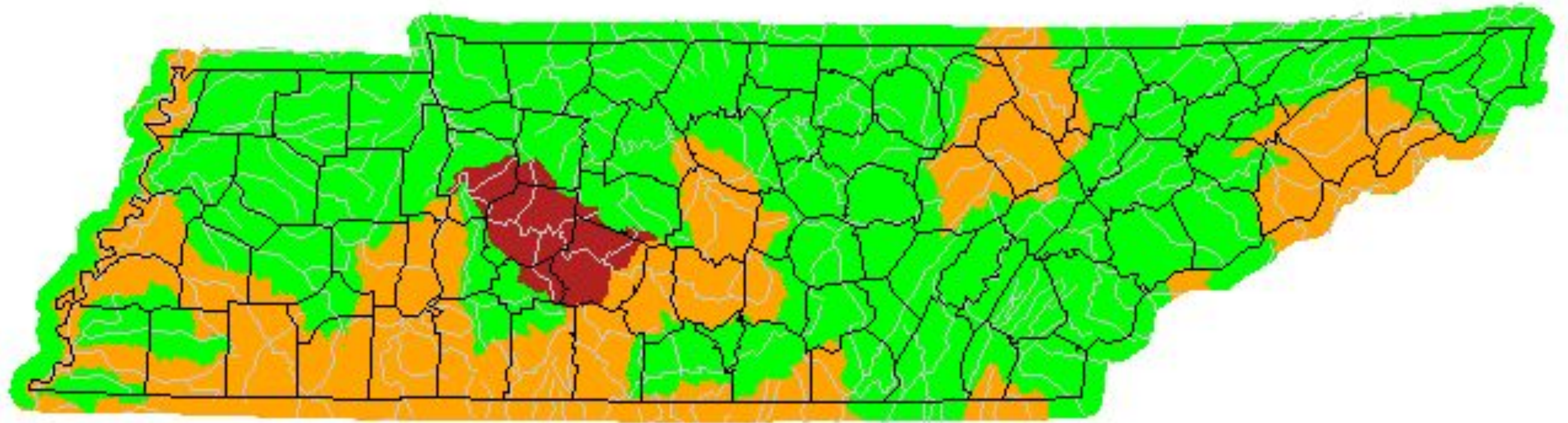
## Main Takeaways

- Below normal to much below normal flows are occurring in the Duck River basin
- Low flows are typical in the fall as it is the driest time of the year

## Impacts

Further decreases of flows may lead to water supply impacts, navigation impacts, and biological effects.

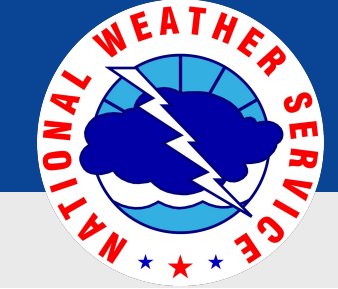
Tuesday, October 24, 2023



Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	No Data
	Much below normal	Below normal	Normal	Above normal	Much above normal		

Image Captions:

[USGS 7 day average streamflow HUC map](#) valid October 24, 2023



# Agricultural Impacts

## Main Takeaways

- Soil moisture is lacking across the mid-state with most areas in the 10-20th percentile.

## Impacts

Despite the low soil moisture there are no known impacts to agriculture as the growing season has ended.

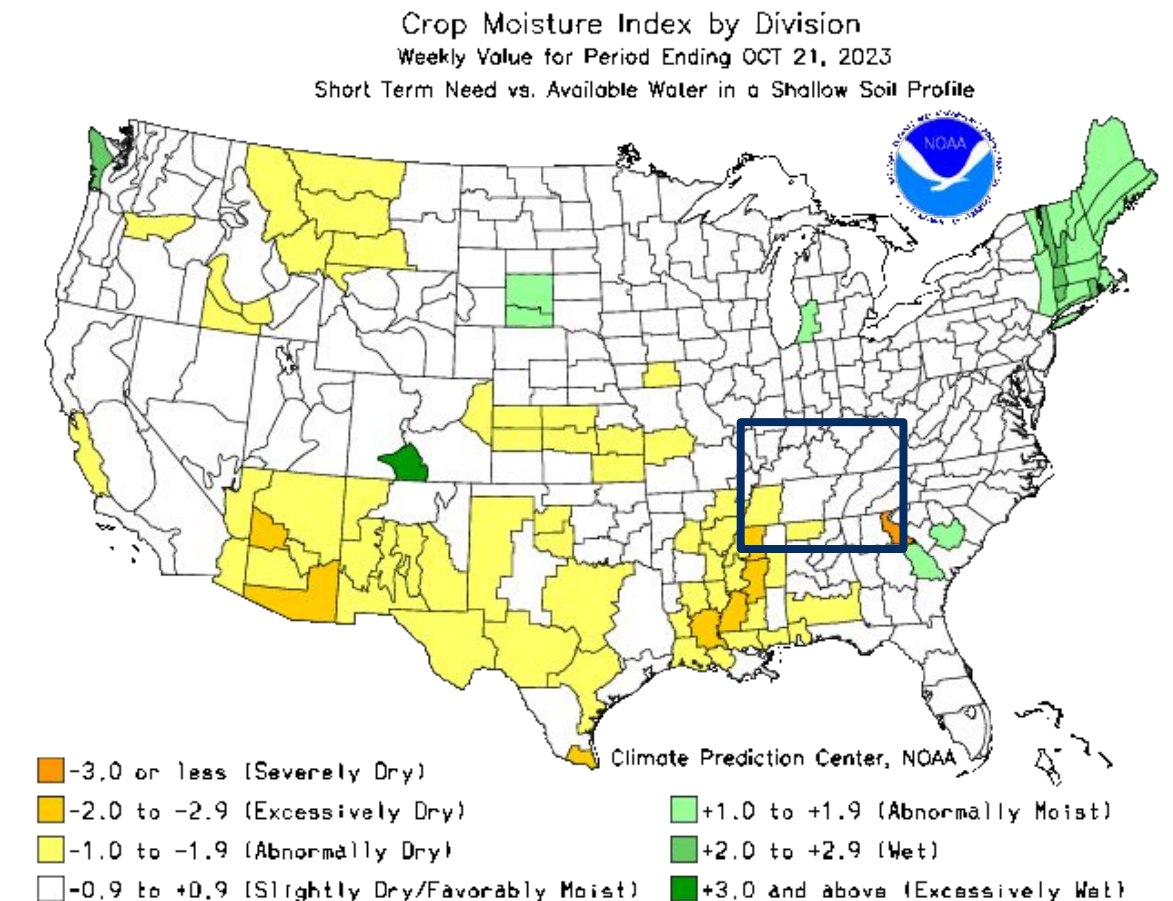
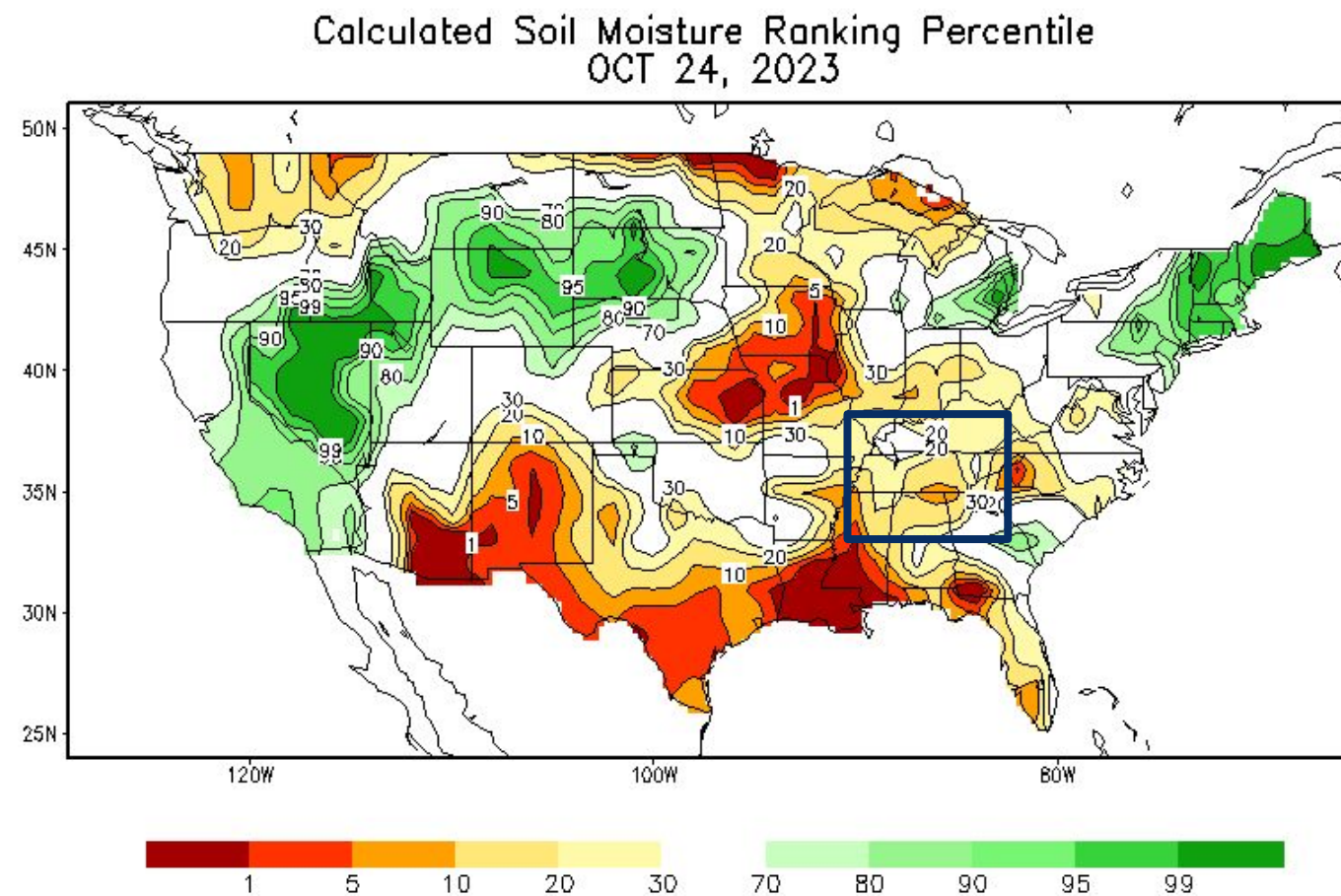


Image Captions:

Left: CPC Calculated [Soil Moisture Ranking Percentile](#) valid April 20, 2023

Right: [Crop Moisture Index by Division](#). Weekly value for period ending October 21, 2023





# Fire Hazard Impacts

Link to [Wildfire Potential Outlooks from the National Interagency Coordination Center](#).

## Main Takeaways

- There is an above normal wildland fire potential due to the current dryness, and the availability of surface fuels as leaves continue to fall.

Latest TN Burn Ban map available [here](#).

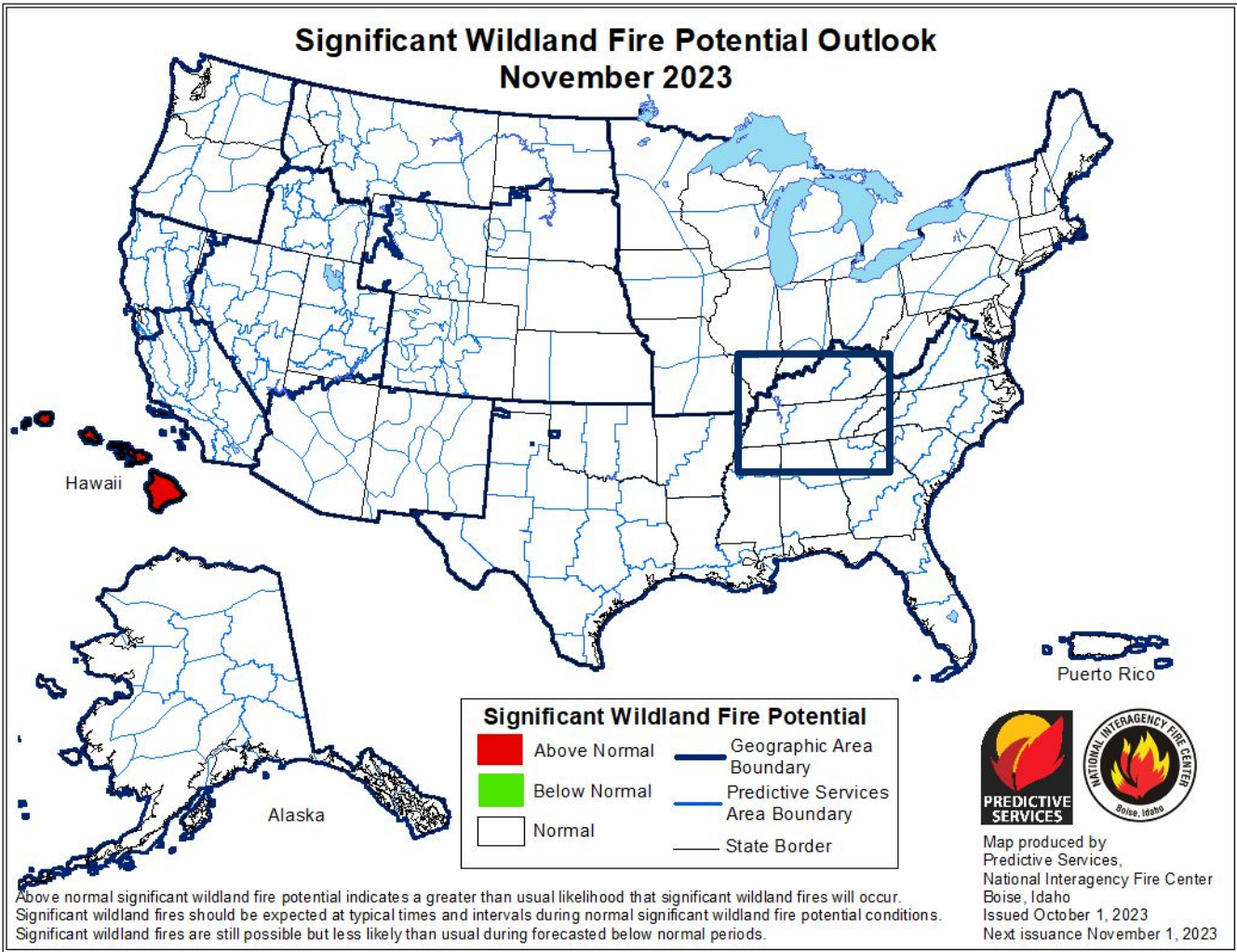
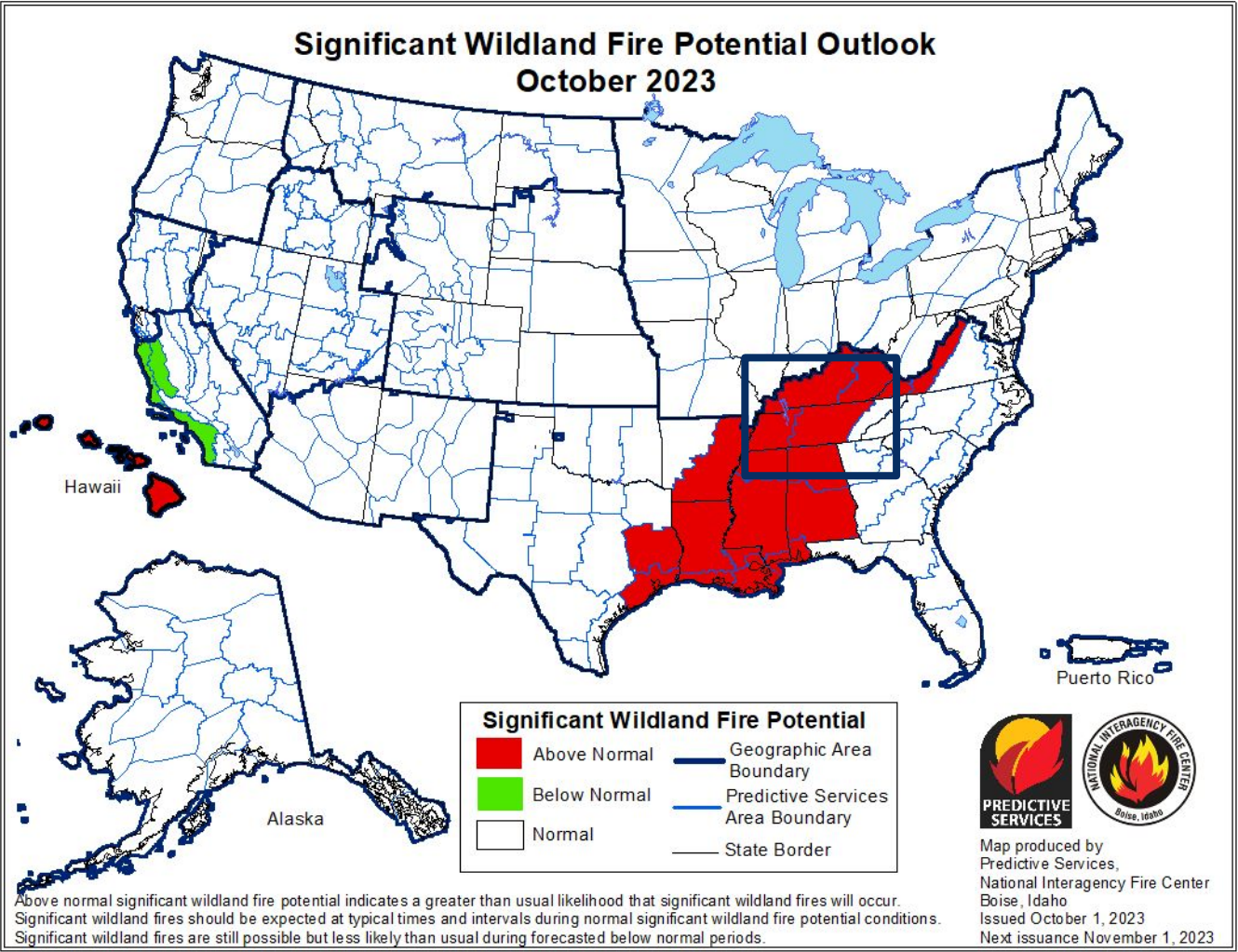


Image Caption: [Significant Wildland Fire Potential Monthly Outlook](#) for October 2023



# Seven Day Precipitation Forecast

- Expect minimal precipitation (0.50 inches or less) over the next 7 days for most of the mid-state, except for areas northwest of Nashville where 1.0 to 1.5 inches of precipitation is possible.

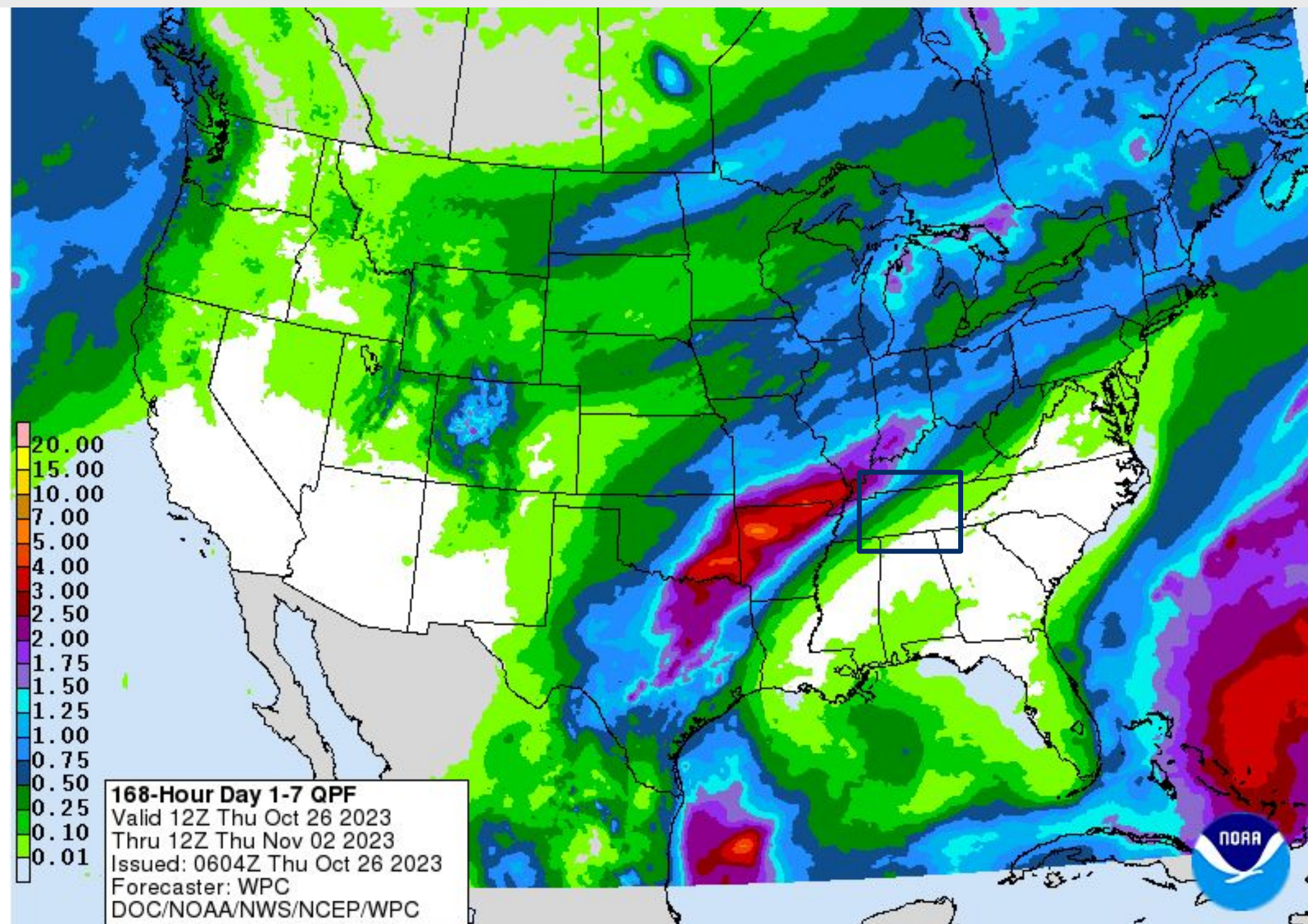


Image Caption: Weather Prediction Center [7-day precipitation forecast](#) valid Thursday, October 26th until Thursday, November 2nd



## Main Takeaways

- Main Takeaway
- Main Takeaway

## Possible Impact

## Possible Impact Goes Here

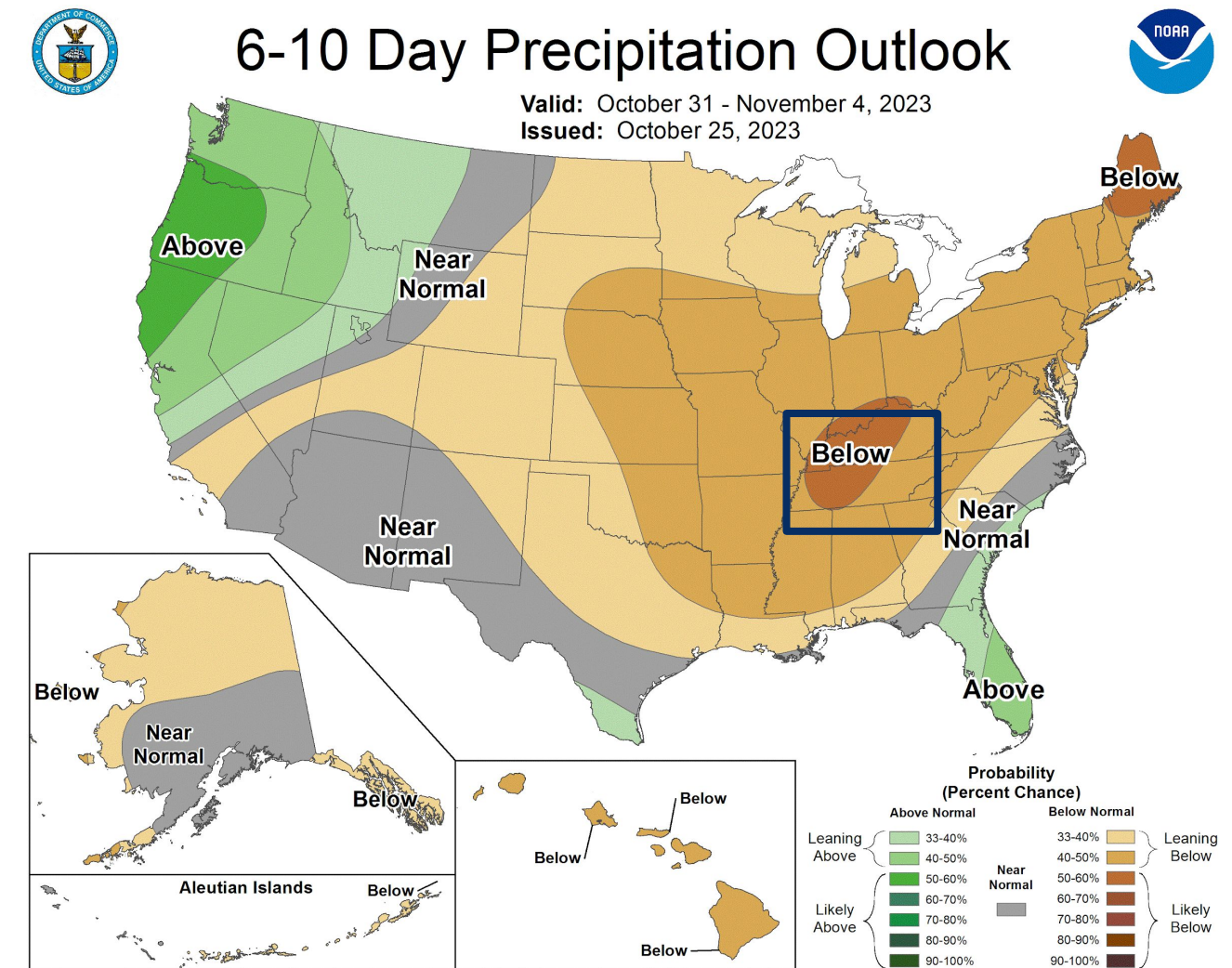


Image Captions:

Left - [Climate Prediction Center 6-10 Day Temperature Outlook](#)

Right - [Climate Prediction Center 6-10 Day Precipitation Outlook](#)

Valid Month DD to DD



# 8-14 Day Outlook

## Temperature and Precipitation Outlook

### Main Takeaways

- Equal chances of above, near, and below normal temperatures
- Equal chances of above, near, and below normal precipitation

### Possible Impact

The lack of significant precipitation over the next two weeks could lead to further degradation of drought across Middle Tennessee.

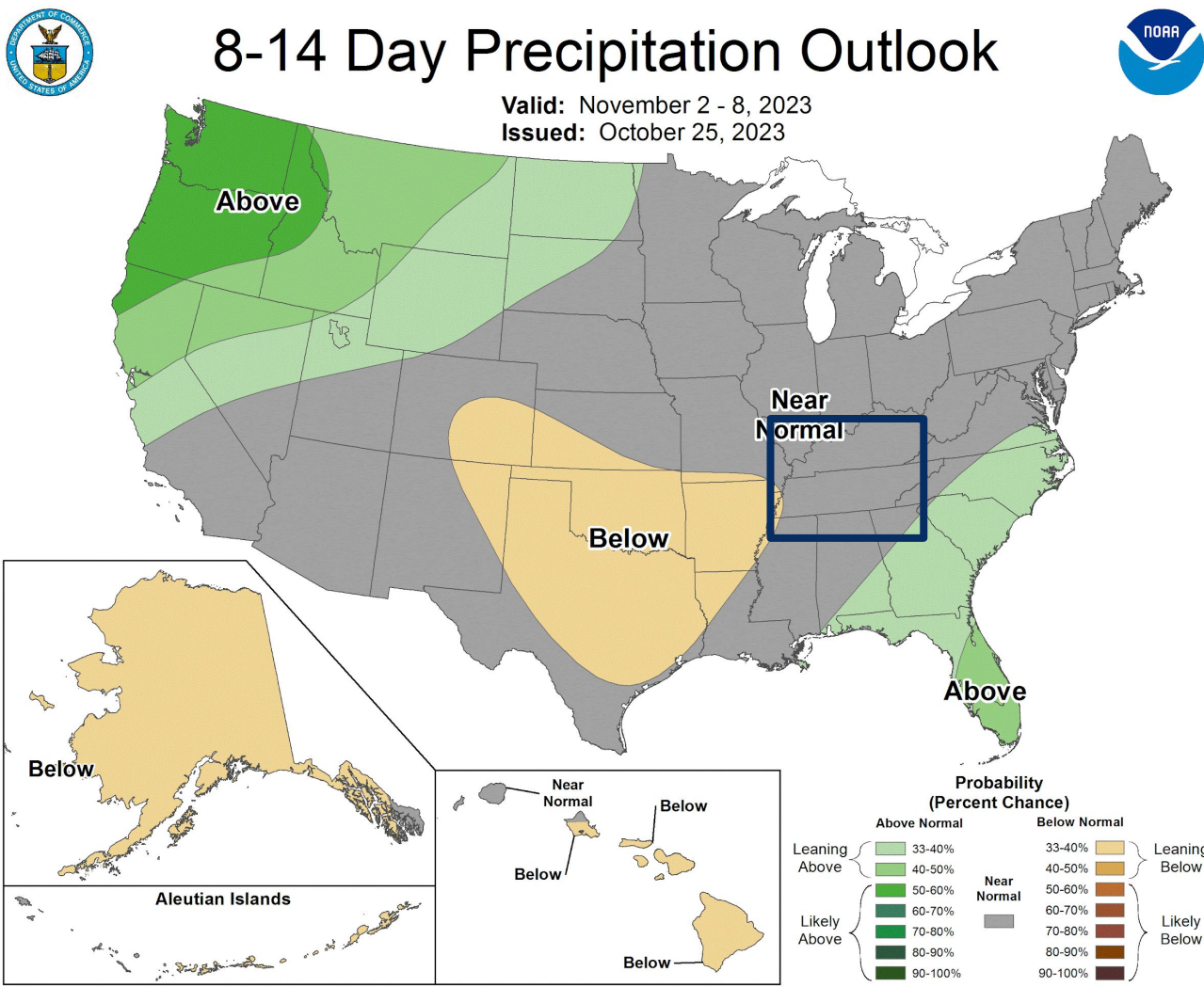
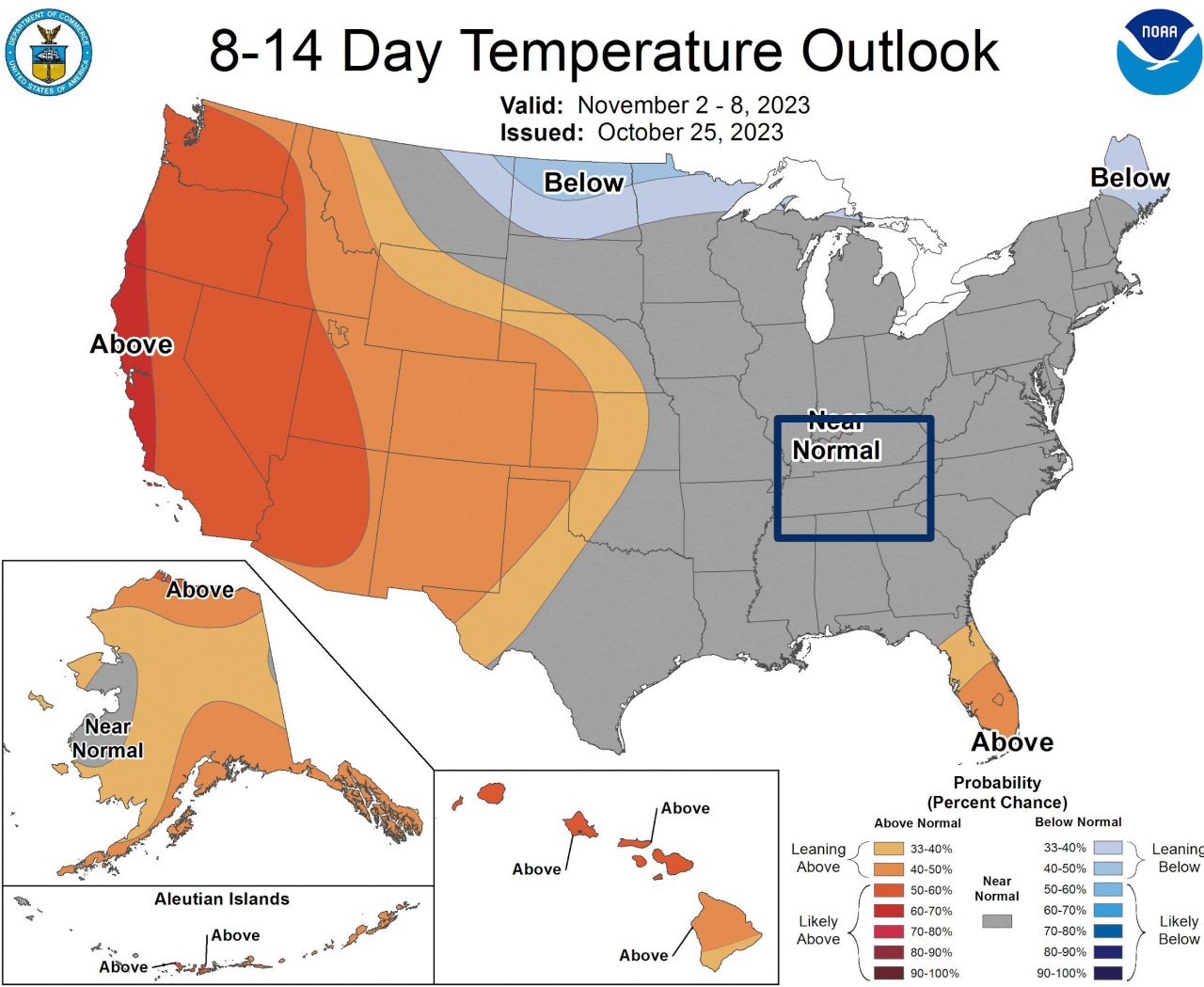


Image Captions:

Left - [Climate Prediction Center 8-14 Day Temperature Outlook](#)  
Right - [Climate Prediction Center 8-14 Day Precipitation Outlook](#)

Valid November 2nd to November 8th



# Seasonal Outlook

## Seasonal Temperature and Precipitation Outlook

### Main Takeaways

- Above normal temperatures are favored for Nov-Dec-Jan
- There are equal chances of above, near, and below normal precipitation for Nov-Dec-Jan

### Possible Impact

With equal chances for above, near, or below normal precipitation drought improvement is not likely through the fall, but becomes more likely in the winter to early spring months.

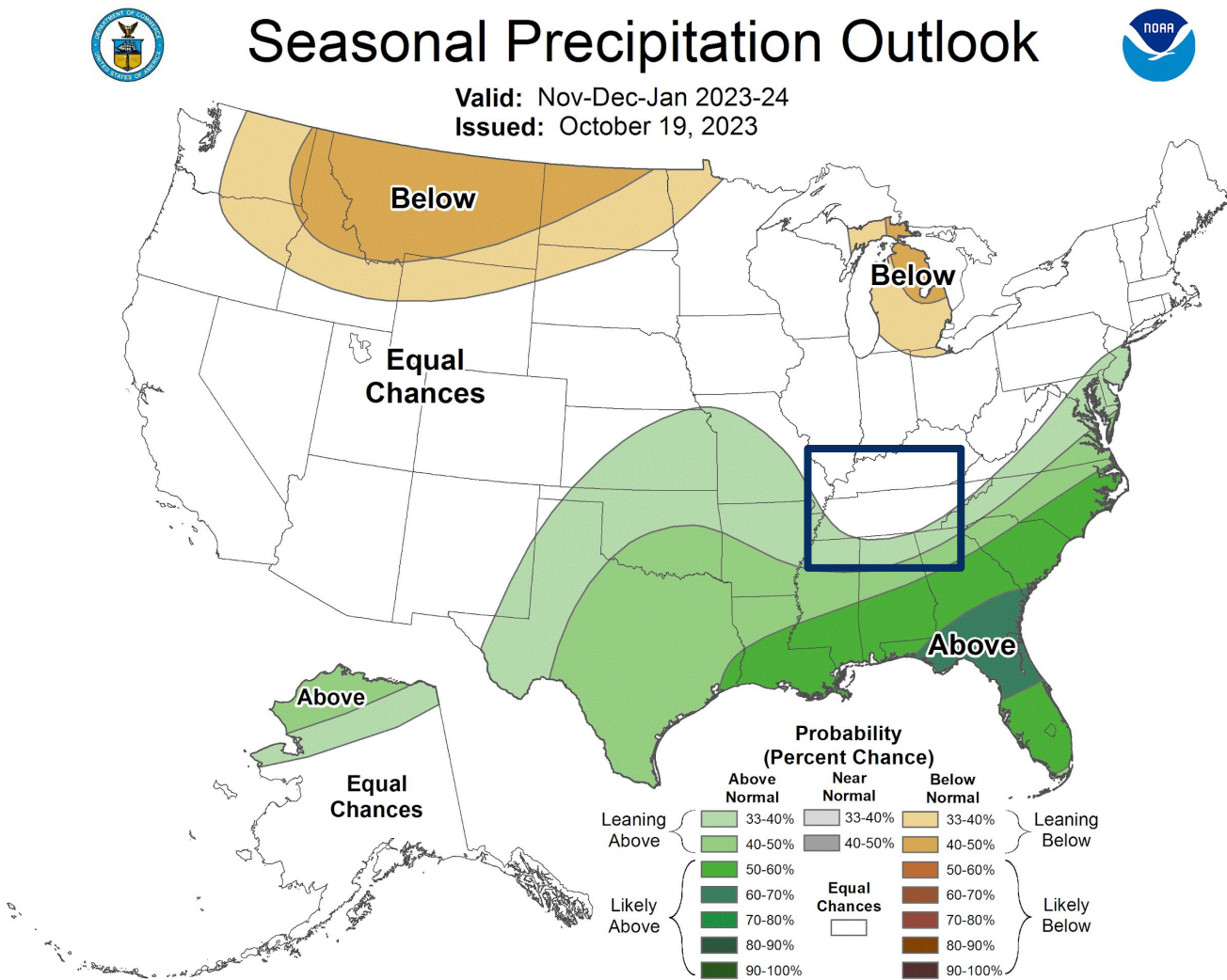
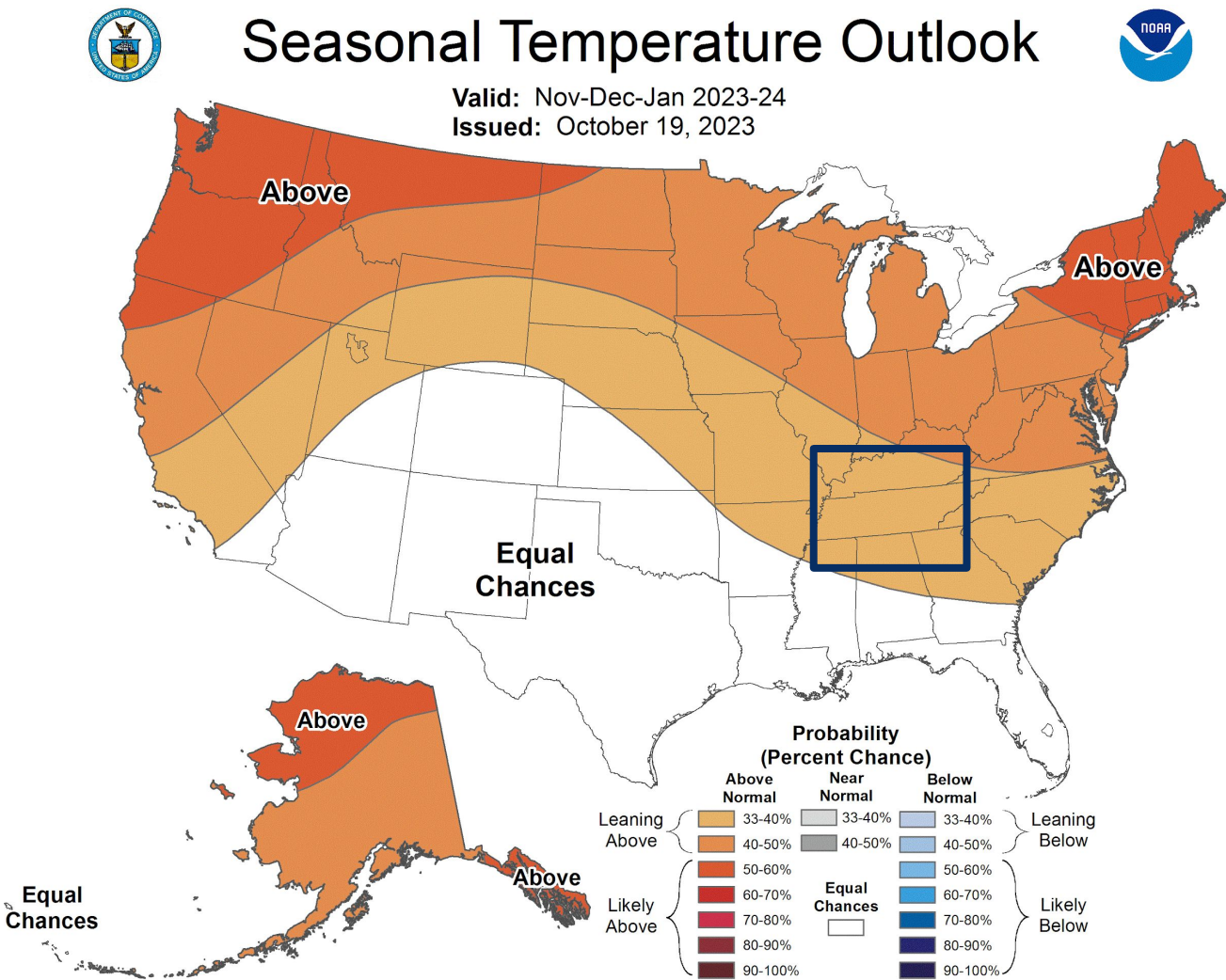


Image Captions:  
Left - [Climate Prediction Center Seasonal Temperature Outlook](#)  
Right - [Climate Prediction Center Seasonal Precipitation Outlook](#)  
Valid November 2023 to January 2024





# Drought Outlook

The latest monthly and seasonal outlooks can be found on the [CPC homepage](#)

## Main Takeaways

- Drought conditions have developed across all of Middle Tennessee through the current period.
- Drought conditions will persist for some time, but are expected to gradually improve with removal possible by the end of January.

## Possible Impact

Effects from El Niño could keep significant precipitation away from the mid-state through the fall, then bring precipitation back in the winter to early spring months that should ease drought impacts.

## U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for October 19, 2023 - January 31, 2024  
Released October 19, 2023

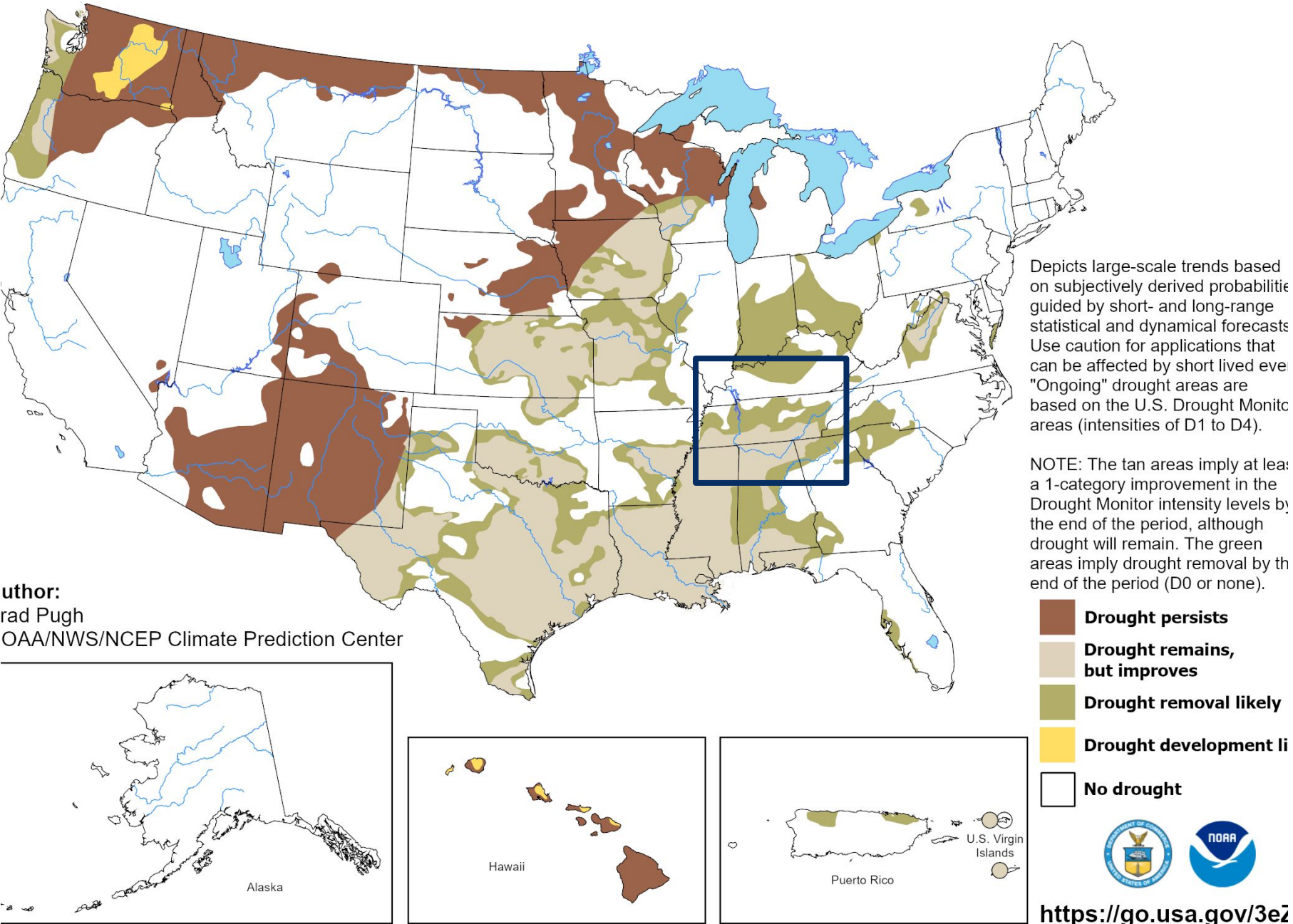


Image Captions:

[Climate Prediction Center Seasonal Drought Outlook](#)

Released October 19, 2023 valid for Oct-Jan 2024

